

Amendments to the Abstract:

Please replace the Abstract with the following new Abstract:

ABSTRACT

A DDR type zeolite membrane formed on a substrate includes silica as a main component. The DDR type zeolite membrane separates at least one type of a gas component from a mixed gas containing at least two types of gases selected from a group consisting of carbon dioxide (CO₂), hydrogen (H₂), oxygen (O₂), nitrogen (N₂), methane (CH₄), normal butane (n-C₄H₁₀), isobutane (i-C₄H₁₀), sulfur hexafluoride (SF₆), ethane (C₂H₆), ethylene (C₂H₄), propane (C₃H₈), propylene (C₃H₆), carbon monoxide (CO), and nitrogen monoxide (NO). Each single gas permeance at room temperature and 100°C are different, respectively, in order to separate at least one selected gas component from the mixed gas.